



**Your IP65+ device  
is waterproof**

**But accumulates moisture.**

The real silent threat to your outdoor equipment →

# IP65+ enclosures are not an air barrier

## 1 On day time

### Air escapes outside

External temperature warms up the IP65+ device. Internal pressure is up and air escapes.

## 2 At night

### External air comes in

Cooling reduces internal pressure. The outside air enter into the enclosure.

## 3 Over time

### Water condensation

Moisture accumulates over time.  
Condensation is unavoidable

*This effect occurs with every thermal cycle — day/night, ON/OFF, seasonal...<sup>2/9</sup>*

# IP65+ enclosure doesn't prevent



**Condensation**



**Corrosion**



**Leakage  
currents**



**Mould growth**



**Seal  
degradation**



**Battery  
discharge**

**⚠ Critical threshold: 60% RH — beyond this, failures accelerate exponentially**

# The technological breakthrough

## SRD

*Self Regenerating  
Desiccant*

A **mesoporous** material that outperforms **silica gel** and **regenerates naturally** with every thermal cycle.



*AS-B pre-cut adhesive  
stickers*

×8

×8 absorption  
capacity

∞

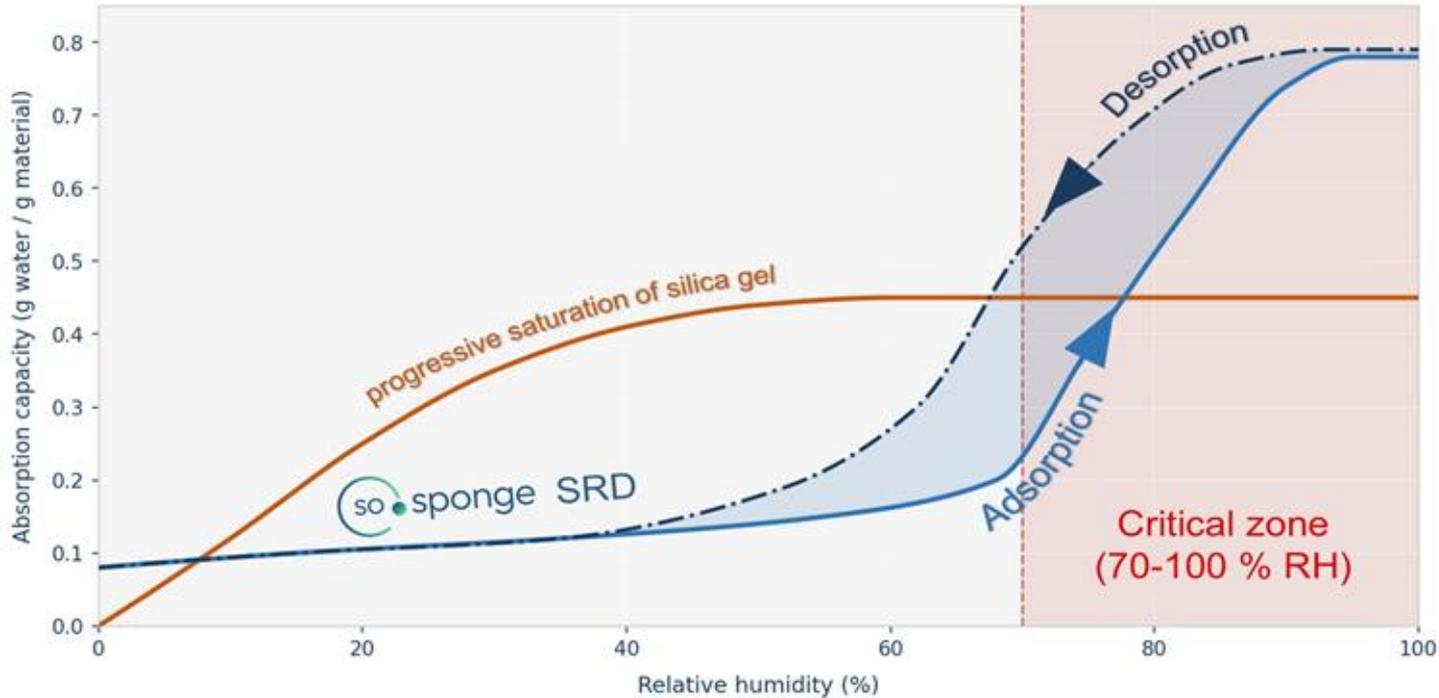
Unlimited  
lifespan



Zero  
maintenance

# A Self Regenerating Desiccant – SRD

Comparative adsorption curves – Silica Gel vs SRD (So Sponge)



The SRD regenerates every cycle

Silica gel saturates progressively

# Benchmarking silica gel

	Silica Gel	SRD SoSponge
Absorption capacity	Average	×8 higher
Regeneration	✗ No	✓ Autonomous
Lifespan	A few months	Unlimited
Maintenance	Regular replacement	✓ Zero
Integration	Loose sachet	Adhesive sticker
Total cost (TCO)	High (recurring)	✓ Low (one-time install)

# Easy implementation



## Select

## Deploy

## Forget

Choose the AS-B size matching the volume of your enclosure

Apply the sticker on the inner surface of the enclosure lid

The SRD works autonomously. Zero maintenance.



*SoSponge AS-B  
in an IoT sensor*

# AS-B Range

*A format for every need*

## AS-B/S

10 cm<sup>2</sup>

**Volume : 1 L**  
(2 × 5 cm)

Small sensors  
and probes



## AS-B/M

100 cm<sup>2</sup>

**Volume : 10 L**  
(10 × 10 cm)

IoT enclosures  
and controllers



## AS-B/L

1000 cm<sup>2</sup>

**Volume : 100 L**  
(~31 × 31 cm)

Electrical cabinets  
and junction boxes



*For customized shape, please contact [sales@sosponge.com](mailto:sales@sosponge.com)*



# Protect your equipment. For good.

High efficiency

Unlimited lifespan

Easy implementation

[Let's talk →](#)

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